

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Victor Batson Examiner #: 372261 Date: 2/37/02
Art Unit: 3671 Phone Number 30 _____ Serial Number: 09/938218
Mail Box and Bldg/Room Location: 2404 (CARS) Results Format Preferred (circle): PAPER DISK E-MAIL

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Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

Patent # 6,158,523 → 09/183560

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Source: [All Sources](#) > [Area of Law - By Topic](#) > [Patent Law](#) > [Patents](#) > [U.S. Patents](#) > [Utility, Design and Plant Patents](#)

i
Terms: **patno=6158523** ([Edit Search](#))

*Pat. No. 6158523, **

6,158,523

◆ GET 1st DRAWING SHEET OF 4

Dec. 12, 2000

Agricultural disc mounting system and method

REISSUE: Reissue Application filed Aug. 23, 2001 (O.G. Nov. 6, 2001) Ex. Gp.: 3671; Re. S.N. 09/938,218

INVENTOR: Gengler, Allan S., Beloit, Kansas
Heidrick, Bradley A., Simpson, Kansas
Hughes, Jeffrey S., Glen Elder, Kansas

ASSIGNEE-AT-ISSUE: Sunflower Manufacturing Co., Inc., Beloit, Kansas (02)

ASSIGNEE-AFTER-ISSUE: Date Transaction Recorded: Oct. 09, 2001
NONE

SECURITY AGREEMENT

CHASE MANHATTAN BANK, THE, AS COLLATERAL AGENT P.O. BOX 2558 HOUSTON, TEXAS 77252

Reel & Frame Number: 012219/0190

APPL-NO: 183,360

FILED: Oct. 30, 1998

INT-CL: [7] A01B 35#28

US-CL: 172#574; 172#572; 172#573; 172#708; 172#711

PRIM-EXMR: Batson, Victor

CORE TERMS: leg, blade, leaf spring, mounting, spindle, spring, gang, rear, disc, shield...

Source: [All Sources](#) > [Area of Law - By Topic](#) > [Patent Law](#) > [Patents](#) > [U.S. Patents](#) > [Utility, Design and Plant Patents](#) **i**

Terms: **patno=6158523** ([Edit Search](#))

View: **Custom** - [Modify](#)

Segments: After-issue, Appl-no, Assign-action, Assign-contact, Assign-date, Assign-frame, Assign-reel, Assignee, Assignor-info, Asst-exmr, At-issue, Certcorr, Date, Disclaimer, Exmr, Expiration-date, Filed, Govt-int, Int-cl, Inventor, Lit-reex, Patno, Pct-filed, Pct-no, Pct-pub-date, Pct-pub-no, Prim-exmr, Reex-cert, Reissue, Rel-us-data, Title, Us-cl

Date/Time: Thursday, February 7, 2002 - 3:25 PM EST

109C25

Print Request: Current Document: 1

Time of Request: February 7, 2002 03:27 pm EST

Number of Lines: 31

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Client ID/Project Name:

Research Information:

Utility, Design and Plant Patents
patno=6158523

Send to: GRIFFIN, ETELKA
PATENT & TRADEMARK OFFICE
1911 S CLARK ST
ARLINGTON, VIRGINIA 22202-3503

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1/1 PLUSPAT - (C) QUESTEL-ORBIT

PN - US6158523 A 20001212 [US6158523]

TI - (A) Agricultural disc mounting system and method

PA - (A) SUNFLOWER MFG CO INC (US)

IN - (A) GENGLER ALLAN S (US); HEIDRICK BRADLEY A (US); HUGHES JEFFREY S (US)

AP - US18336098 19981030 [1998US-0183360]

PR - US18336098 19981030 [1998US-0183360]

IC - (A) A01B-035/28

EC - A01B-015/18

- A01B-035/28

PCL - ORIGINAL (O) : 172574000; CROSS-REFERENCE (X) : 172572000 172573000
172708000 172711000

DT - Basic

CT - US-889486; US-928029; US1529042; US2211675; US2750861; US3058531;
US3640348; US3967685; US4066132; US4333535; US4407372; US4428437;
US4520875; US4683958; US4724910; US4759411; US5042590; US5267619;
US5785129

- Sales Literature of Brillion Iron Works, Inc. of Brillion, Wisconsin for Soil Commander, exact publication date unknown, but at least one year prior to the filing of the present application.

Sales Literature of DMI, Inc. of Goodfield, Illinois for conservation yield-till tools Model 530, exact publication date unknown, but at least one year prior to the filing of the present application.

Sales Literature of Krause Corporation of Hutchinson, Kansas for disc and deep till in one-pass, exact publication date unknown, but at least one year prior to the filing of the present application.

Sales Literature of Landoll Corporation of Marysville, Kansas for Weatherproofer II disc and deep-till, exact publication date unknown, but at least one year prior to the filing of the present application.

Sales Literature of Sunflower Manufacturing Co., Inc. of Beloit, Kansas for Series 4000 Deep Tillage, exact publication date unknown, but at least one year prior to the filing of the present application.

Sales Literature of Sunflower Manufacturing Co., Inc. of Beloit, Kansas for Series 4311 Disc-Ripper, exact publication date unknown, but at least one year prior to the filing of the present application.

STG - (A) United States patent

AB - A disc mounting system includes the attachment of each disc to a disc gang bar via a dedicated leaf spring. Each of the leaf springs, which can be generally U shaped, are attached at a top end to the gang bar and at a lower leg to a disc spindle such that the disc is positioned at least partially alongside the spring lower leg. The mounting system allows the disc to deflect vertically, laterally or torsionally when the disc encounters an obstacle. An optional shield can be attached to the leaf spring to prevent soil and debris thrown out by adjacent discs from entering the spring. A disc scraper blade can also be attached to the shield.

UP - 2001-01

1/1 LGST - (C) LEGSTAT

PN - US 6158523 [US6158523]

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AP - US 183360/98 19981030 [1998US-0183360]
DT - US-P
ACT - 19981030 US/AE-A
APPLICATION DATA (PATENT)
{US 183360/98 19981030 [1998US-0183360]}
- 20001212 US/A
PATENT
- 20011106 US/RF
REISSUE APPLICATION FILED
20010823
UP - 2001-48

1/1 CRXX - (C) CLAIMS/RRX
PN - 6,158,523 A 20001212 [US6158523]
PA - Sunflower Mfg Co Inc
ACT - 20010823 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20011106
REISSUE REQUEST NUMBER: 09/938218
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3671

Reissue Patent Number:

- 20011009 REASSIGNED
SECURITY AGREEMENT

Assignor: SUNFLOWER MANUFACTURING COMPANY, INC. DATE SIGNED: 07/10/2001

Assignee: CHASE MANHATTAN BANK, THE, AS COLLATERAL AGENT P.O. BOX 2558
HOUSTON, TEXAS 77252

Reel 012219/Frame 0190

Contact: SIMPSON THACHER & BARTLETT ROBYN GREENBERG, ESQ. 425
LEXINGTON AVE. NEW YORK, NY 10017

1/1 PAST - (C) PAST
AN - 200145-001737
PN - 6158523 A [US6158523]
OG - 2001-11-06
ACT - REISSUE APPLICATION FILED

Search statement 2

?file inpadoc

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1/1 INPADOC - (C) INPADOC

PN - US 6158523 A 20001212 [US6158523]

TI - AGRICULTURAL DISC MOUNTING SYSTEM AND METHOD

IN - GENGLER ALLAN S [US]; HEIDRICK BRADLEY A [US]; HUGHES JEFFREY S [US]

PA - SUNFLOWER MFG CO INC [US]

AP - US 183360/98-A 19981030 [1998US-0183360]

PR - US 183360/98-A 19981030 [1998US-0183360]

IC - A01B-035/28

1/1 LEGALI - (C) LEGSTAT

PN - US 6158523 [US6158523]

AP - US 183360/98 19981030 [1998US-0183360]

DT - US-P

ACTE- 19981030 US/AE-A

APPLICATION DATA (PATENT)

{US 183360/98 19981030 [1998US-0183360]}

- 20001212 US/A

PATENT

- 20011106 US/RF

REISSUE APPLICATION FILED

20010823

UP - 2001-48